

2013 Annual Public Meeting of the
Interagency Steering Committee on Multimedia Environmental Modeling (ISCMEM)

October 22-23, 2013

U.S. Nuclear Regulatory Commission, Church Street Building, Room 6-B1
 21 Church Street, Rockville, MD, 20850 (next to Rockville Metrorail Station)

Theme: How environmental modeling plays a role in decision making

October 22, 2013 (Tuesday)

8:30 am	Registration	
9:00 am	Welcome and Opening Remarks	Ming Zhu (DOE/ISCMEM Chair)
	• Host Special Remarks.....	TBD (NRC)
9:15 am	Keynote: Making Hazards Real: Citizen Science, Disaster Scenarios, and Visualization	David Applegate (USGS)
10:15 am	Citizen Science, Crowd Sourcing, and Social Media	Pierre Glynn (USGS)/Gene Whelan (EPA)
	• Citizen science, crowd sourcing, and social-media.....	Rick Ziegler (EPA)
	• A systems approach to Citizen Science for the management of natural resources and environments.....	Pierre Glynn (USGS)
11:15 am	Break	
11:30 am	Water Resources	Mary Hill (USGS)/Ken Rojas (USDA)
	• Mode-I and GRACE-Based Drought Monitoring Products for Use in the U.S. Drought Monitor Decision Support Process.....	Matthew Rodell (NASA)
12:00 pm	Lunch	
1:15 pm	Environmental Evaluation and Remediation	Ming Zhu (DOE) /Pierre Glynn (USGS)
	• Risk-Informed Decision Making for DOE Environmental Management.....	Bill Levitan (DOE EM)
	• EPA Studies of Hydraulic Fracturing Impacts on Water Resources.....	TBD (EPA)/TBD (LBNL)
2:15 pm	Energy/Water Nexus	Pat Deliman (USACE)/Gene Whelan (EPA)
	• The Future Is Now: OpenTERRAwoks—Interoperable 2D/3D Landscape Design Software for Integrated Environmental Modeling.....	Justin Babendreier (EPA)
	• Far Field Effects of Hydrokinetic Turbines on Fish.....	David Smith (USACE)
3:15 pm	Break	
3:30 pm	Climate Change	Tom Nicholson (NRC)/William Cooper (NSF)
	• U.S. Energy Sector Vulnerabilities to Climate Change and Extreme Weather.....	Craig Zamuda (DOE/PI)
	• Overview of NOAA's Great Lakes Environmental Research Laboratory: Modeling and Observation Program.....	Eric Anderson (NOAA)

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(continued)

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4:30 pm	Climate Change (continued)	Tom Nicholson (NRC)/ William Cooper (NSF)
	• Coastal Flooding and Climate Change.....	Brett Sanders (UC Irvine)
5:00 pm	Water Resources (continued)	Mary Hill (USGS)/Ken Rojas (USDA)
	• NLDAS/Drought Monitoring.....	Michael Ek & Youlong Xia (NOAA)
5:30 pm	Questions from the Public/Adjourn	Ming Zhu (DOE)

October 23, 2013 (Wednesday)

8:30 am	Working Group Reports	Working Group Chairs
	• WG1 (Software Systems Design and Implementation for Environmental Modeling)	Gene Whelan (EPA)/Olaf David (USDA)
	• WG2 (Model Uncertainty Analysis and Parameter Estimation)	Tom Nicholson (NRC)/Mary Hill (USGS)
	• WG3 (Subsurface Reactive Solute Transport Modeling).....	Gary Curtis (USGS)/Mark Fuhrmann (NRC)
	• WG4 (Distributed Watershed/Water Quality Monitoring)	Billy Johnson (ACE)/Laj Ahuja (USDA)
	• WG5 (Forecasting of Ecosystem Functions and Services)	Pat Deliman (ACOE)/Brenda Rashleigh (EPA)/Pierre Glynn (USGS)
	• WG6 (Integrated Monitoring and Modeling)	Ming Zhu (DOE)
10:00 am	Break	
10:15 am	Steering Committee Business Meeting	Ming Zhu (DOE)
	• Update on MOU Signing since 2012 Annual Public Meeting	Ming Zhu (DOE)
	• Support to ISCMEM Website.....	Gene Whelan (EPA)
	• iemHUB Updates	Gene Whelan (EPA)
	• General Discussion of Path Forward	Ming Zhu (DOE)
12:00 pm	Questions from the Public	Ming Zhu (DOE)
12:15 pm	End	